

CLAIMS

What is claimed is:

1. A method of transmitting a message from a wireless communications mobile terminal to a base station via an uplink channel, comprising:

5 examining a signal quality of a downlink channel at said mobile terminal;
uplinking said message from said mobile terminal to said base station
using an ARQ transmission mode in response to said examining
indicating that said signal quality is below a predetermined threshold.

10 2. The method of claim 1 wherein examining said signal quality comprises
evaluating a BER associated with said downlink channel and wherein said
predetermined threshold relates to a first predetermined BER.

3. The method of claim 1 wherein examining said signal quality comprises
evaluating an RSSI associated with said downlink channel and wherein said
predetermined threshold relates to a first predetermined RSSI.

15 4. The method of claim 1 wherein examining said signal quality comprises
evaluating both a BER and an RSSI associated with said downlink channel and wherein
said predetermined threshold considers both BER and RSSI.

5. The method of claim 1 wherein examining said signal quality of a downlink
channel comprises examining said signal quality of a downlink traffic channel.

6. A method of transmitting a message from a wireless communications mobile terminal to a base station via an uplink channel, comprising:
- examining a signal quality of a downlink channel from said base station to said mobile terminal at said mobile terminal;
 - 5 transmitting said message from said mobile terminal to said base station on an uplink channel using:
 - an ARQ transmission mode in response to said examining indicating that said signal quality is below a predetermined threshold;
 - 10 a non-ARQ transmission mode in response to said examining indicating that said signal quality is not below said predetermined threshold.
7. The method of claim 6 wherein examining said signal quality comprises evaluating a BER associated with said downlink channel and wherein said predetermined threshold relates to a first predetermined BER.
- 15 8. The method of claim 6 wherein examining said signal quality comprises evaluating an RSSI associated with said downlink channel and wherein said predetermined threshold relates to a first predetermined RSSI.
- 20 9. The method of claim 6 wherein examining said signal quality comprises evaluating both a BER and an RSSI associated with said downlink channel and wherein said predetermined threshold considers both BER and RSSI.
10. The method of claim 6 wherein examining said signal quality of a downlink channel comprises examining said signal quality of a downlink traffic channel.

11. A method of transmitting a message from a wireless communications mobile terminal to a base station via an uplink channel, comprising:
- determining a length of said message;
 - in response to said message being longer than a first predetermined length:
 - examining a signal quality of a downlink channel from said base station to said mobile terminal at said mobile terminal;
 - transmitting said message from said mobile terminal to said base station on an uplink channel using:
 - an ARQ transmission mode in response to said examining indicating that said signal quality is below a predetermined threshold;
 - a non-ARQ transmission mode in response to said examining indicating that said signal quality is above said predetermined threshold;
 - in response to said message being not longer than said first predetermined length, transmitting said message from said mobile terminal to said base station on an uplink channel using a non-ARQ transmission mode.
12. The method of claim 11 wherein said first predetermined length is 40 bytes.

13. The method of claim 11 wherein examining said signal quality comprises evaluating a BER associated with said downlink channel and wherein said predetermined threshold relates to a first predetermined BER.

14. The method of claim 11 wherein examining said signal quality comprises
5 evaluating an RSSI associated with said downlink channel and wherein said predetermined threshold relates to a first predetermined RSSI.

15. The method of claim 11 wherein examining said signal quality comprises evaluating both a BER and an RSSI associated with said downlink channel and wherein said predetermined threshold considers both BER and RSSI.

16. The method of claim 11 wherein examining said signal quality of a
10 downlink channel comprises examining said signal quality of a downlink traffic channel.

17. A method of transmitting a message from a wireless communications
mobile terminal to a base station via an uplink channel, comprising:
examining a signal quality of a downlink channel from said base station to
said mobile terminal at said mobile terminal;
5 determining a length of said message;
transmitting said message from said mobile terminal to said base station
on an uplink channel using an ARQ transmission mode in response to
both said message being longer than a first predetermined length and
said examining indicating that said signal quality is below a
10 predetermined threshold; otherwise transmitting said message from
said mobile terminal to said base station on said uplink channel using a
non-ARQ transmission mode.

18. The method of claim 11 wherein said first predetermined length is 40
bytes.

19. The method of claim 11 wherein examining said signal quality comprises
evaluating a BER associated with said downlink channel and wherein said
predetermined threshold relates to a first predetermined BER.

20. The method of claim 11 wherein examining said signal quality comprises
evaluating an RSSI associated with said downlink channel and wherein said
20 predetermined threshold relates to a first predetermined RSSI.

21. The method of claim 11 wherein examining said signal quality comprises
evaluating both a BER and an RSSI associated with said downlink channel and wherein
said predetermined threshold relates to both BER and RSSI.

22. The method of claim 11 wherein examining said signal quality of a downlink channel comprises examining said signal quality of a downlink traffic channel.

23. A mobile terminal for communicating with a wireless communications system base station, said mobile terminal comprising:
- an antenna;
 - control logic operatively connected to said antenna and adapted to:
 - examine a signal quality of a downlink channel from the base station to said mobile terminal received via said antenna;
 - initiate transmission of a message from said mobile terminal to the base station on an uplink channel using:
 - an ARQ transmission mode in response to said signal quality being below a predetermined threshold;
 - a non-ARQ transmission mode in response to said signal quality being not below said predetermined threshold;
 - and
 - memory operatively connected to said control logic and storing therein at least one threshold value associated with said signal quality predetermined threshold.
24. The mobile terminal of claim 23 wherein said threshold value relates to BER.
25. The mobile terminal of claim 23 wherein said threshold value relates to RSSI.